

WATER RESOURCES FIELD MAINTENANCE SPECIALIST I

JOB DESCRIPTION

Classification Responsibilities: The Water Resources Field Maintenance Specialist I is a trainee classification in which the incumbent learns to perform specialized work involving the installation, maintenance, and repair of remote water treatment equipment and facilities. An employee in this class accompanies and observes a lead person, specifically the Water Resources Field Maintenance Specialist II and/or Water Resources Field Maintenance Crew Leader class, thus performing daily activities and assisting in performing entry-level water pump system maintenance work. Some examples of duties learned and performed include: performing plumbing work including cutting, threading, and welding pipe; installing and replacing pumps, compressors, motors, and related equipment; lubricating bearings; replacing seals, gaskets, springs, and gears; installing, maintaining, and repairing equipment and facilities, including but not limited to: pumps, compressors, pipes, aeration/mixer equipment, chlorine equipment, including gaseous and/or onsite generation; and chemical analyzers and dosing equipment, valves, gear boxes, tanks, and swing arms, etc. As the incumbent demonstrates the ability to perform the full range of the proposed Water Resources Field Maintenance Specialist II duties, the complexity and difficulty of assignments will increase. This class performs related duties as required.

Distinguishing Features: This class is distinguished from the Water Resources Field Maintenance Specialist II class by its responsibility for performing entry-level remote water system maintenance duties while learning to perform journey-level remote water system maintenance. This class is provided leadership and direction by a Water Resources Field Maintenance Specialist II or Water Resources Field Maintenance Crew Leader, thus performing with supervisory responsibility provided by the Water/Wastewater Field Supervisor through the on-site observation of work in progress or the finished project, and meetings regarding problems or potential problems discovered while performing routine duties. Job hazards may include frequent exposure to a variety of weather conditions, chlorine gas, toxic chemicals, high-voltage lines, confined space, and equipment. Employees in this class may progress to the Water Resources Field Maintenance Specialist II class by noncompetitive promotion upon meeting the specific criteria-based promotion requirements of experience, training, and performance. An employee in this class is required to use appropriate safety equipment and follow safety procedures in performing assignments. This class may be subject to emergency call-out and must be willing to work overtime as required. Incumbents must be willing to work scheduled stand-by. This class is FLSA nonexempt.

QUALIFICATIONS

Employee Values: All employees of the City of Mesa are expected to uphold and exhibit the City's shared employee values of Knowledge, Respect, and Integrity.

Minimum Qualifications Required. Any combination of training, education, and experience equivalent to graduation from high school or GED. One year of experience performing water or wastewater plant equipment maintenance, water system equipment maintenance, or other mechanical or manufacturing equipment maintenance; **OR** nine months of experience as a Water Resources Maintenance Specialist Intern with the City of Mesa.

Special Requirements. Must possess a valid Arizona Class B Commercial Driver License (CDL) with Hazardous Materials Endorsement (HME); **OR** must possess a valid Arizona Class B Commercial

Learner Permit (CLP), meet the age requirement for a HME, and complete the [Transportation Safety Administration](#) (TSA) HME Security Threat assessment process by hire or promotion date. Incumbents with a CLP must also successfully complete the City's Entry Level Driver (ELD) training program, including HME training; pass the State administered HME knowledge test; pass the road and skills test administered by a City of Mesa Third Party Examiner (TPE); and obtain a Class B CDL with HazMat endorsement within 150 days of hire or promotion date. Must meet the qualifications to wear a tight-fitting respirator by passing a medical evaluation in accordance with Code of Federal Regulations (CFR) 1910.134 by hire or promotion date and must maintain certification. Must meet the physical standards and requirements for the wearing of an Air Purifying Respirator (APR) respiratory protection equipment by hire or promotion date and must maintain certification. Must obtain a Grade I (or higher) Water Distribution System Operator **OR** Water Treatment System Operator certification from the Arizona Department of Environmental Quality (ADEQ) within one year of hire or promotion date. This class shall be responsible for acquiring a minimum of 30 professional development hours (PDHs) every three years to maintain their ADEQ Certification. The incumbent must also obtain a 40-hour HazWoper Certification as per Occupational Safety and Health Administration (OSHA) and must attend an annual HazWoper refresher course to maintain certification.

Substance Abuse Testing. This class is subject to Department of Transportation (DOT) Federal Motor Carrier Safety Administration (FMCSA) drug and alcohol testing as outlined in 49 CFR Part 382.

Preferred/Desirable Qualifications. None.

ESSENTIAL FUNCTIONS

One position may not include all of the essential functions, knowledge and abilities listed, nor do the listed examples include all the knowledge and abilities which may be found in positions of this classification.

Communication: Communicates verbally and in writing with City employees, management, and the public in order to provide information on the water distribution system. Provides information to contractors and vendors to ensure that maintenance and repairs are performed correctly. Maintains safety logs and reports for tracking purposes and provides this information to Safety Services.

Manual/Physical: Incumbents operate City vehicles such as a one-ton truck to transport hazardous chemicals requiring a HazMat endorsement and a boom or dump truck requiring a valid Arizona Class B CDL in order to maintain the remote water facilities, including booster stations, well sites, and Pressure Reducing Valve stations. Wears respiratory protection equipment to comply with safety standards when working in confined spaces and/or around toxic chemicals (example: chlorine gas). Paints various pieces of equipment, stairways, shelves, cabinets, etc., using epoxy, enamel, and latex paints. Pushes, pulls, carries, and lifts objects weighing up to 100 pounds with the assistance of essential lifting equipment (example: cart, power winches, rigging equipment, etc.). Works at heights of up to 150 feet and depths of 50 feet. Learn techniques for the construction of new remote water facilities. Follows construction plans and blueprints. Learns to install, maintain, and/or replace chemical dosing pumps at remote water facilities; operate a variety of construction equipment including an electric hoist, trencher, forklift, cement mixer, welder, cutting torch, oxyacetylene welding torch, welding machine, pipe threader, tamper, paint sprayer, hand tools, and other related tools in order to complete maintenance and

repair duties; apply welding and metal fabricating techniques and procedures to the maintenance and repair of equipment, the installation of sight gauges on tanks, and to construct safety guards, supports, kick plates, platforms, shelving, cabinets, work tables, etc.; perform pipefitting and plumbing by cutting, threading, and welding pipe; and install, maintain, repair, and replace pumps, compressors, motors, surge tanks, and related equipment. Learns to perform preventive maintenance tasks such as changing oil; lubricating bearings; replacing oil seals, gaskets, springs, and gears; and related maintenance work. Mix and pour concrete for pump bases and pipe support; read meters in order to report usage for billing; and install, maintain, and repair air release valves. Addresses customer requests. Meets scheduling and attendance requirements.

Mental: Monitors inventory and notifies supervisor as supplies and parts are needed. Learns maintenance operation and new repair techniques through on-the-job training. Reads and interprets water plat maps. Learns new techniques for installing and maintaining remote water system equipment including pumps, variable speed drives, and related equipment, through classroom and on-the-job training.

Knowledge/Skills/Abilities:

Knowledge of:

oxyacetylene welding techniques and procedures;
stainless steel, aluminum, and polyvinyl chloride (PVC) welding and metal fabricating techniques and procedures;
American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) codes and requirements;
installation, maintenance, and repair procedures for pumps, valves, rapid mixers, drive units, chlorinators, and other equipment associated with a remote water system;
pipefitting techniques and procedures;
methods, practices, and materials used in the mechanical trades;
occupational hazards and safety procedures associated with confined space entry, mechanical maintenance, welding, fluoride, methane gas, hydrogen sulfide, ferrous chloride, and chlorine gas;
water flow meters;
plumbing methods, practices, and materials;
basic methods and practices used in the electrical trades;
carpentry and painting techniques and practices;
concrete repair; and
personal computers (PC), related software, and Computer Maintenance Management Software (CMMS).

Skill in:

the use and care of an oxyacetylene welding torch, a welding machine, hot air gun, propane torch, drill press, band saw, metal grinder, paint sprayer, and other equipment necessary to perform assigned tasks;
the use of precision measuring equipment, including micrometers, dial indicators, and strain gauges; and
the use and care of hand tools necessary to perform various mechanical installations, maintenance, and repair tasks.

Ability to:

use a respirator;

follow oral and written instructions;

learn to operate a variety of equipment, including an overhead crane, forklift, and boom truck; and
establish and maintain effective working relationships with coworkers and supervisors.

The duties listed above are intended only as general illustrations of the various types of work that may be performed. Specific statements of duties not included does not exclude them from the position if the work is similar, related, or a logical assignment to the position. Job descriptions are subject to change by the City as the needs of the City and requirements of the job change.

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MZ/eb/ah

CS3886.DOCX

EEO-SCW

JOB FCTN-TEC

Non-DOT Safety and Security-N

CDL-Y

RESP-Y

PAY GRADE: 42

IND-7520

SWORN-No

Non-DOT Random-N

DOT-Y

INCREMENTS 83-200